METHOD AND APPARATUS FOR PROVIDING INTERPROCESSOR COMMUNICATIONS USING SHARED MEMORY

ABSTRACT OF THE INVENTION

A method for transferring messages between a first processor (102) and a second processor (104) includes the step of requesting an empty message buffer (106) from the first processor or master processor (102). The first processor (102) sends an empty message buffer pointer (108) which the second processor uses to locate the allocated memory within the shared memory (112). The second processor (104) then loads its message in the allocated memory area and sends the message (110). After receiving the message, the first processor (102) releases the allocated memory area found in shared memory (112) so that it can be used in the future. An electronic device such as a radio communication device that uses the shared memory scheme is also described.